

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/670,192 09/26/2000		Siegfried Kurt Buss	FAO-0019	5598
7590 08/03/2004			EXAMINER	
CANTOR CO 55 Griffin Road	-		SEALEY, I	ANCE W
Bloomfield, CT 06002			ART UNIT	PAPER NUMBER
•			2671	,
			DATE MAIL ED: 09/02/2000	4

Please find below and/or attached an Office communication concerning this application or proceeding.

8

Office Action Summary Examiner						
Examiner Lance W. Sealey 2671 The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. 5 transition of time may be available under the provisions of 37 CPR 1.13(b). In so event, however, may a reply be timely filled 5 the period for reply is appelled above. The maximum statutory prior (a) digital period (b) of the correspondence address — 1 the period for reply to appelled above. The maximum statutory prior (a) digital period (b) of the correspondence of the communication. 1 the period for reply to appelled above. The maximum statutory prior (a) digital period (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	,	Application No.	Applicant(s)			
Lance W. Sealey -The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the paried for riply specified above is less than thirty (0) days, a reply within the statutory, minimum of thirty (0) days will be considered timely. If the paried for riply specified above is less than thirty (0) days, a reply within the statutory, minimum of thirty (0) days will be considered timely. If the paried for riply specified above is less than thirty (0) days, a reply within the statutory minimum of thirty (0) days will be considered timely. If the paried for riply specified above is less than thirty (0) days, a reply within the statutory minimum of thirty (0) days will be considered timely. If the paried for riply specified and state the interference and the riple and the ri		09/670,192	BUSS ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estambino of time may be available under the provisions of 37 CER 1.1960). In no event, involved, may a reply be timely filed Estambino of time may be available, under the provisions of 37 CER 1.1960). In no event, however, may a reply be timely filed Estambino of tempty a specified shows a less than thirty (30) days, at reply within the statution, which will be considered sinely. If the period for reply specified above a less than thirty (30) days, at reply within the statution, which is the communication of the period for reply will, by statute, cause the application to become ABMONED (30 U.S.C. § 133). If the period for reply a specified shows the nearling state of the communication, even it showly filed, may reduce alony searned period than object the replication of the communication, even it showly filed, may reduce alony searned period for the period to reply will, by statute, cause the application to the communication. **This action is FINAL.** 20) This action is FINAL.** 21) Means this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Of the above claim(s)	Office Action Summary	Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. - Exercision of time rary by are are all the provisions of 37° CFR 1.35(s), in no event, however, may a ripty be timely filed - Exercision of time rary by are are all the provisions of 37° CFR 1.35(s), in no event, however, may a ripty be timely filed - Exercision of time rary by be are all the provisions of 37° CFR 1.35(s), in no event, however, may a ripty be timely filed - Exercision of time rary by be are all the provisions of 37° CFR 1.35(s), which has all the provision of the provision of the provision of the superior of the su		•				
THE MAILING DATE OF THIS COMMUNICATION. Extensives for mem yab searble under the provisions of 37 CPR 1.13(e). In no event, however, may a reply be timely filed after SIX (6) MCNTRS from the mailing date of this communication. Failure or reply is specified under the provision of the communication. Failure to reply within the set or extended pends of responsibility. The provision of the mailing date of this communication. Failure to reply within the set or extended pends for reply will, by statute, cause the application to become AAMDONED (36 U.S. 6, 133). Any reply received by the Official develope the maining date of this communication, even if timely field, may reduce any semant pends term adjustment. Sea 37 CPR 1.70(b). Status **Responsive to communication(s) filled on 12 May 2004. 2a) This action is FINAL. 2b) This action is final in the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.3-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s)		ears on the cover sheet with the	correspondence address			
THE MAILING DATE OF THIS COMMUNICATION. Extensives for mem yab searble under the provisions of 37 CPR 1.13(e). In no event, however, may a reply be timely filed after SIX (6) MCNTRS from the mailing date of this communication. Failure or reply is specified under the provision of the communication. Failure to reply within the set or extended pends of responsibility. The provision of the mailing date of this communication. Failure to reply within the set or extended pends for reply will, by statute, cause the application to become AAMDONED (36 U.S. 6, 133). Any reply received by the Official develope the maining date of this communication, even if timely field, may reduce any semant pends term adjustment. Sea 37 CPR 1.70(b). Status **Responsive to communication(s) filled on 12 May 2004. 2a) This action is FINAL. 2b) This action is final in the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.3-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s)	•	' IS SET TO EXPIRE 3 MONTH	H(S) FROM			
2a This action is FINAL. 2b This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.8-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 1-6.8-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 10-12 and 22-24 is/are allowed. 6 Claim(s) 1-6 and 13-18 is/are rejected. 7 Claim(s) 8-9.20 and 21 is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11 The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12 The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. ***Attachment(s)**	 Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	within the statutory minimum of thirty (30) di ill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.9-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 10-12 and 22-24 is/are allowed. 6) Claim(s) 1-12 and 22-24 is/are ejected. 7) Claim(s) 8.9.20 and 21 is/are objected to. 8) Claim(s) 8.9.20 and 21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cacepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. **Sea the attached detailed Office action for domestic priority under 35 U.S.C. §§ 120 and/or 121.	1) Responsive to communication(s) filed on 12 N	<u>1ay 2004</u> .				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims	2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.				
A) Claim(s) 1-6.8-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 10-12 and 22-24 is/are allowed. 6) Claim(s) 1-6 and 13-18 is/are rejected. 7) Claim(s) 8.9.20 and 21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filled on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. **Attachment(e) Natice of References Cited (PTO-892) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	closed in accordance with the practice under I					
4a) Of the above claim(s) is/are withdrawn from consideration. 5)	<u> </u>	the application				
5) □ Claim(s) 10-12 and 22-24 is/are allowed. 6) □ Claim(s) 1-6 and 13-18 is/are rejected. 7) □ Claim(s) 8,9,20 and 21 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.	• • • • • • • • • • • • • • • • • • • •					
6) ☐ Claim(s) 1-6 and 13-18 is/are rejected. 7) ☐ Claim(s) 8.9.20 and 21 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) b) ☐ Notice of References Cited (PTO-892) b) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)	<u> </u>					
7) ☐ Claim(s) 8,9,20 and 21 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 ☐ Notice of Informal Patent Application (PTO-152)	<u> </u>					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Motice of References Cited (PTO-892) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)	_					
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) 11 Interview Summary (PTO-413) Paper No(s) 12 Notice of Informal Patent Application (PTO-152)	_	election requirement.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		·				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	9)☐ The specification is objected to by the Examiner		·			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 4) Interview Summary (PTO-413) Paper No(s) 10 Notice of Informal Patent Application (PTO-152)	10)☐ The drawing(s) filed on is/are: a)☐ accep	ted or b)☐ objected to by the Ex	aminer.			
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some column None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 4) Interview Summary (PTO-413) Paper No(s). Copies of Informal Patent Application (PTO-152)	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	12) The oath or declaration is objected to by the Exa	aminer.				
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) All Interview Summary (PTO-413) Paper No(s) By Notice of Braftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. §§ 119 and 120					
1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1 ☐ Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5 ☐ Notice of Informal Patent Application (PTO-152)	13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119((a)-(d) or (f).			
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Attachment(s) 4) ☐ Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)	a) ☐ All b) ☐ Some * c) ☐ None of:					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 3. Under the international Bureau (PTO-892) application for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s). Comparison of References Cited (PTO-892) application (PTO-152)	 Certified copies of the priority documents 	have been received.				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Attachment(s) 4) Interview Summary (PTO-413) Paper No(s). C) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	2. Certified copies of the priority documents	have been received in Applica	tion No			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	application from the International Bureau (PCT Rule 17.2(a)).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)						
Attachment(s) Notice of References Cited (PTO-892)	a) The translation of the foreign language provisional application has been received.					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)		, , ===================================				
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informa				

Art Unit: 2671

DETAILED ACTION

Allowed and Allowable Subject Matter

1. Claims 10-12 and 22-24 are allowed, and claims 8-9 and 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. No prior art anticipates or suggests, in a computer based method featuring smaller files decomposed from a computer aided design file of a model, determining the distance between a surface on said model and said point on a corresponding physical object (claims 8, 10, 20, 22 and 24). Claims 11 and 23 are allowed because they depend on allowed claims 10 and 22, respectively, and claims 9 and 21 are allowable because they depend on allowable claims 8 and 20, respectively.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.
 Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 and 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable by Noble (U.S. Pat. No. 5,392,222) in view of Foley et al., Computer Graphics: Principles and Practice

Art Unit: 2671

Second Edition in C ("Foley").

- 4. Noble, in disclosing locating a field of view in which selected integrated circuit conductors are unobscured, also discloses, with respect to claim 1, a computer based method comprising:
 - decomposing data from a computer aided design file of a model (setup tool 2320, FIG.22; the data decomposed resided in the layout 2210 and netlist 2215 files),
 - saving said decomposed data in a plurality of smaller files (FIG.22 shows the
 decomposition from the layout and netlist files to the node-index 2240, poly-index 2245,
 multy-index 2250, net-index 2255 and polygon & trapezoid 2235 files), and
 - accessing at least one of said analysis files to analyze the surface geometry of said model (the FINDNET program uses polygon and trapezoid files 2235 to analyze surface geometry; see col.20, ll.1-9).
- 5. However, Noble does not disclose one of said smaller files as an analysis file which does not contain imaging data, said analysis file containing mathematics representing the model surface. This element is disclosed by the Foley computer graphics textbook. Section 7.1.2, p.288, specifies ingredients of a geographic model: files specifying spatial layout and shape of components (similar to applicants' WIF file 510, FIG.3), files specifying connectivity of components (similar to applicants' DRE file 520, FIG.3) and files in which application-specific data values and properties associated with components, such as electrical characteristics or

Art Unit: 2671

descriptive text, reside (this is the group of files in which the applicants' FLC file 620, FIG.3, falls. Supporting this assertion of the examiner's is another statement two paragraphs later: "...a model of a computer network could store the connecting lines explicitly or could recompute them from a connectivity matrix with a simple graph-layout algorithm each time a new view is requested." If the computer network model recomputes the connecting lines using a stored connectivity matrix, then the file in which the connectivity matrix resides is a mathematics file.).

- 6. Therefore, it would have been obvious to one of ordinary skill in the art at the time this invention was made to have modified the Foley mathematics file in view of the Noble IC modeling software oriented view system by incorporating the Foley math file with the connectivity matrix, and the Foley algorithm for recomputing connectivity of components, into the Noble software. Such a modification to Noble would save space (Foley, Section 7.1.2, p.288, last paragraph).
- 7. Concerning claims 2 and 14, Noble discloses said at least one of said analysis files does not substantially contain data required to display an image of said model (col.20, 11.3-5).
- 8. Regarding claims 3 and 15, Noble discloses said at least one of said analysis files consists of data required to analyze said surface geometry (col.20, ll.1-9).
- 9. With respect to claims 4 and 16, Noble discloses at least one of said smaller files comprises imaging data (col.19, ll.65-68).
- 10. Concerning claims 5 and 17, Noble discloses at least one of said smaller files does not

Art Unit: 2671

substantially contain data required to analyze said surface geometry (technology file 2225, FIG.22, and col.20, ll.11-12).

- 11. Finally, claim 13 is rejected in a manner similar to claim 1 except that claim 13 discloses a medium including machine-readable computer program code for managing computer aided design data, the medium including instructions for causing a computer to implement a method. These elements are disclosed in FIG.22 (Findnet routine 2275) and FIG.23 (Lineindex routine 2310 and Findindex routine 2310).
- 12. Therefore, in view of the foregoing, claims 1-5 and 13-17 are rejected as being unpatentable under 35 U.S.C. 103(a) by Noble and Foley.
- 13. Claims 6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable by Noble in view of Benson et al. ("Benson", U.S. Pat. No. 6,556,206).
- 14. With respect to claim 6, in a manner similar to the rejection of claim 1, Noble discloses decomposing data from a computer aided design file of a model, saving said decomposed data in a plurality of smaller files, and accessing at least one of said analysis files to analyze the surface geometry of said model. However, Noble does not disclose at least one of said smaller files comprises a list of specified surfaces on said model and data relating to the smallest possible three-dimensional region that can enclose each specified surface. This element is disclosed in Benson at col.3, 11.54-64.
- 15. Therefore, it would have been obvious to one of ordinary skill in the art at the time this

Art Unit: 2671

invention was made to have modified the Noble IC modeling software in view of the Benson method of automated viewpoint selection. Such a modification to Noble would facilitate the task of defining a set of viewpoints for a given scene of 3D objects (Benson, col.1, ll.51-52).

- 16. Rejecting claim 18 in a manner similar to claim 13, Noble discloses decomposing data from a computer aided design file of a model, saving said decomposed data in a plurality of smaller files, and accessing at least one of said analysis files to analyze the surface geometry of said model, and Benson, in a manner similar to the rejection of claim 6, discloses at least one of said smaller files comprises a list of specified surfaces on said model and data relating to the smallest possible three-dimensional region that can enclose each specified surface.
- 17. Therefore, in view of the foregoing, claims 6 and 18 are rejected as being unpatentable under 35 U.S.C. 103(a) by Noble and Benson.

Response to Remarks

- 18. The applicants first assert that there is insufficient motivation to combine Noble with Foley to reject claim 1.
- 19. The motivation stated by the examiner for combining Foley with Noble was the conservation of space; furthermore, this motivation was in the Foley reference. MPEP 2143 only requires that a motivation be provided; MPEP 2143 does not provide a guideline for degrees of motivation-whether a motivation is sufficient or insufficient.

Art Unit: 2671

20. Nor does combining Foley with Noble render Noble unsatisfactory for its intended purpose. As the applicants point out, Noble is concerned with generating graphical representations of IC structures. Combining Foley with Noble does not render Noble unable to generate such graphical representations. Therefore the examiner's rejection of claims 1-5 and 13-17 as being unpatentable under Noble in view of Foley still stands.

21. However, with respect to claims 6 and 18, the examiner is persuaded by the applicants' assertion that there is no motivation to combine Warmerdam with Noble. Therefore, Benson has been substituted for Warmerdam in the rejection of these claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the Office should be directed to the examiner, Lance Sealey, whose telephone number is (703) 305-0026. He can be reached from 7:00 am-3:30 pm Monday-Friday EDT.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at (703) 305-9798.

Any response to this action should be mailed to:

MS Non-Fee Amendment

Commissioner for Patents

P.O. Box 1450

Art Unit: 2671

Alexandria, VA 22313-1450

or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARK ZIMMERMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600